



## RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/619,588  
Source: 1 FWO  
Date Processed by STIC: 4/2/04

**THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.**

**PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:**

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

**FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 703-308-4212; FAX: 703-308-4221**

**Effective 12/13/03: TELEPHONE: 571-272-2510; FAX: 571-273-0221**

**TO REDUCE-ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:**

**<http://www.uspto.gov/web/offices/pac/checker/chkr41note.htm>**

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/efc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry directly to (EFFECTIVE 12/01/03):  
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 10/08/03

## Raw Sequence Listing Error Summary

ERROR DETECTED	SUGGESTED CORRECTION	SERIAL NUMBER: 10/6/9,588
ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE		
1 ____ Wrapped Nucleics Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."	
2 ____ Invalid Line Length	The rules require that a line not exceed 72 characters in length. This includes white spaces.	
3 ____ Misaligned Amino Numbering	The numbering under each 5 <sup>th</sup> amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.	
4 ____ Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.	
5 ____ Variable Length	Sequence(s) ____ contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.	
6 ____ PatentIn 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.	
7 ____ Skipped Sequences (OLD RULES)	Sequence(s) ____ missing. If intentional, please insert the following lines for each skipped sequence: (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION: SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped  Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.	
8 ____ Skipped Sequences (NEW RULES)	Sequence(s) ____ missing. If intentional, please insert the following lines for each skipped sequence. <210> sequence id number <400> sequence id number 000	
9 ____ Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.	
10 ____ Invalid <213> Response	Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence	
11 ____ Use of <220>	Sequence(s) ____ missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)	
12 ____ PatentIn 2.0 "bug"	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.	
13 ____ Misuse of n/Xaa	"n" can only represent a single nucleotide; "Xaa" can only represent a single amino acid	



IFWO

## RAW SEQUENCE LISTING

DATE: 04/02/2004

PATENT APPLICATION: US/10/619,588

TIME: 09:51:42

Input Set : A:\16969-036001.TXT

Output Set: N:\CRF4\04022004\J619588.raw

4 <110> APPLICANT: Liu, Zhaowei  
 7 <120> TITLE OF INVENTION: METHOD AND SYSTEM FOR COMPARATIVE  
 8 GENOMICS FOR CLOSELY RELATED ORGANISMS USING TEMPERATURE  
 9 GRADIENT ELECTROPHORESIS  
 11 <130> FILE REFERENCE: 16969-036001  
 13 <140> CURRENT APPLICATION NUMBER: US 10/619,588  
 14 <141> CURRENT FILING DATE: 2003-07-16  
 16 <150> PRIOR APPLICATION NUMBER: US 60/396,006  
 17 <151> PRIOR FILING DATE: 2002-07-16  
 19 <150> PRIOR APPLICATION NUMBER: US 60/395,614  
 20 <151> PRIOR FILING DATE: 2002-07-15  
 22 <150> PRIOR APPLICATION NUMBER: US 10/287,826  
 23 <151> PRIOR FILING DATE: 2002-11-05  
 25 <150> PRIOR APPLICATION NUMBER: PCT/US01/27440  
 26 <151> PRIOR FILING DATE: 2001-09-04  
 28 <150> PRIOR APPLICATION NUMBER: US 60/229.302  
 29 <151> PRIOR FILING DATE: 2001-09-01  
 31 <160> NUMBER OF SEQ ID NOS: 4  
 33 <170> SOFTWARE: FastSEQ for Windows Version 4.0  
 35 <210> SEQ ID NO: 1  
 36 <211> LENGTH: 15  
 37 <212> TYPE: DNA  
 38 <213> ORGANISM: Artificial Sequence  
 40 <220> FEATURE:  
 41 <223> OTHER INFORMATION: Example  
 43 <400> SEQUENCE: 1  
 44 gatgagggcat ttgac  
 46 <210> SEQ ID NO: 2  
 47 <211> LENGTH: 15  
 48 <212> TYPE: DNA  
 49 <213> ORGANISM: Artificial Sequence  
 51 <220> FEATURE:  
 52 <223> OTHER INFORMATION: Example  
 54 <400> SEQUENCE: 2  
 55 ctactccgta aactg  
 57 <210> SEQ ID NO: 3  
 58 <211> LENGTH: 15  
 59 <212> TYPE: DNA  
 60 <213> ORGANISM: Artificial Sequence  
 62 <220> FEATURE:  
 63 <223> OTHER INFORMATION: Example  
 65 <400> SEQUENCE: 3  
 66 gatgagggcgt ttgac

Does Not Comply  
Corrected Diskette Needed

pp 1-2

This is an insufficient explanation. Give source of genetic material. (see item 11 on Error Summary Sheet)

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TIME: 09:51:42

Input Set : A:\16969-036001.TXT

Output Set: N:\CRF4\04022004\J619588.raw

68 &lt;210&gt; SEQ ID NO: 4

69 &lt;211&gt; LENGTH: 15

70 &lt;212&gt; TYPE: DNA

71 &lt;213&gt; ORGANISM: Artificial Sequence

73 &lt;220&gt; FEATURE:

74 &lt;223&gt; OTHER INFORMATION: Example

76 &lt;400&gt; SEQUENCE: 4

77 ctactccgca aactg

15

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/619,588

DATE: 04/02/2004

TIME: 09:51:43

Input Set : A:\16969-036001.TXT

Output Set: N:\CRF4\04022004\J619588.raw